

The following is a complete listing of all claims in the application, with an indication of the status of each:

Listing of claims:

1 1 (Currently amended). A computer-implemented method for processing a structural
2 document to remove ambiguities from the document prior to processing, comprising
3 the steps of:

4 identifying ambiguities within a structural document in electronic format to
5 include data loops that are not marked as loops;

6 representing the structural document in electronic format as a hierarchical tree
7 structure, using computing resources;

8 receiving, within said computing resources, translation rules and data loop
9 grouping options defined by a user in a static translation table with reference to the
10 hierarchical tree structure;

11 creating a dynamic translation table to resolve said ambiguities for said
12 hierarchical tree structure; and

13 automatically generating, using said computing resources, a modified
14 hierarchical tree structure representing the structural document in electronic format in
15 accordance with the translation rules and grouping options.

1 2 (Original). The method of claim 1, wherein the translation rules include rules for
2 grouping elements of the structural document.

1 3 (Original). The method of claim 2, wherein the rules for grouping are selected from
2 the group consisting of: diversification of sub-tree tags, and identity of sub-tree tags.

1 4 (Original). The method of claim 3, wherein the rules for grouping are represented
2 as a two column table wherein a first column of the table defines a plurality of nodes
3 in the hierarchical tree structure, and a second column of the table defines a rule to be
4 applied to grouping each of one of the plurality of nodes.

1 5 (Currently amended). The method of claim 1, wherein the hierarchical tree
2 structure is Document Object Model, and the structural document in electronic format
3 to be translated is in a format selected from the group consisting of: flat file and
4 Extensible Markup Language.

1 6 (Currently amended). The method of claim 1, wherein the step of automatically
2 generating, using said computing resources, a modified hierarchical tree structure
3 comprises processing each node of the hierarchical tree structure in accordance with
4 the translation rules, automatically generating a dynamic table representing an interim
5 translation of the hierarchical tree structure, and generating the modified hierarchical
6 tree structure from the interim translation.

1 7 (Original). The method of claim 1, wherein the translation rules are generated by
2 the user by means of a graphical user interface that displays to the user various data
3 elements of the structural document represented as nodes in a hierarchical tree
4 structure.

1 8 (Original). The method of claim 1, wherein the ambiguities to be removed from the
2 structural document include data loops that are not marked as loops.

1 9 (Currently amended). A system of computer resources for processing a structural
2 document to remove ambiguities from the document prior to processing, comprising:

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3 means within a system of computer resources for identifying ambiguities
4 within a structural document in electronic format to include data loops that are not
5 marked as loops;

6 means within a system of computer resources for representing the structural
7 document in electronic format as a hierarchical tree structure;

8 means within a system of computer resources for receiving translation rules
9 and data loop grouping options from a user having reference to the hierarchical tree
10 structure;

11 means within a system of computer resources for creating a dynamic
12 translation table to resolve said ambiguities for said hierarchical tree structure; and

13 means within a system of computer resources for automatically generating a
14 modified hierarchical tree structure representing the structural document in
15 accordance with the translation rules and grouping options.

1 10 (Previously submitted). The system of claim 9, wherein the translation rules
2 include rules for grouping elements of the structural document.

1 11 (Previously submitted). The system of claim 10, wherein the rules for grouping
2 are selected from the group consisting of: diversification of sub-tree tags, and identity
3 of sub-tree tags.

1 12 (Previously submitted). The system of claim 11, wherein the rules for grouping
2 are represented as a two column table wherein a first column of the table defines a
3 plurality of nodes in the hierarchical tree structure, and a second column of the table
4 defines a rule to be applied to grouping each of one of the plurality of nodes.

1 13 (Previously submitted). The system of claim 9, wherein the hierarchical tree
2 structure is Document Object Model, and the structural document to be translated is

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3 in a format selected from the group consisting of: flat file and Extensible Markup
4 Language.

1 14 (Previously submitted). The system of claim 9, wherein the means for
2 automatically generating a modified hierarchical tree structure comprises means for
3 processing each node of the hierarchical tree structure in accordance with the
4 translation rules, automatically generating a dynamic table representing an interim
5 translation of the hierarchical tree structure, and generating the modified hierarchical
6 tree structure from the interim translation.

1 15 (Previously submitted). The system of claim 9, further comprising a graphical user
2 interface that displays to the user data elements of the structural document as nodes in
3 a hierarchical tree structure, means for allowing the user to select grouping options for
4 such nodes, and means for transforming the selected grouping options into the
5 translation rules.

1 16 (Previously submitted). The system of claim 9, wherein the ambiguities to be
2 removed from the structural document include data loops that are not marked as
3 loops.

1 17 (Currently amended). A computer program product comprising:
2 a computer usable medium having computer readable program code means
3 embodied therein for ~~causing the processing of~~ a structural document in electronic
4 format to remove ambiguities from the document prior to processing, the computer
5 readable program code means in said computer program product ~~comprising~~ making a
6 computer execute:

7 ~~computer readable program code means~~ process for identifying ambiguities
8 within a structured document in electronic format to include data loops that are not
9 marked as loops;

10 ~~computer readable program code means~~ process for causing a computer to
11 effect representing the structural document as a hierarchical tree structure;

12 ~~computer readable program code means~~ process for causing a computer to
13 effect receiving translation rules and data loop grouping options defined by a user in a
14 static translation table with reference to the hierarchical tree structure;

15 ~~computer readable program code means~~ process for creating a dynamic
16 translation table to resolve said ambiguities for said hierarchical tree structure; and

17 ~~computer readable program code means~~ process for causing a computer to
18 effect automatically generating a modified hierarchical tree structure representing the
19 structural document in accordance with the translation rules and grouping options.